

HPNS BCT Meeting



Parcel E Pothole Area Characterization







Presentation Objectives

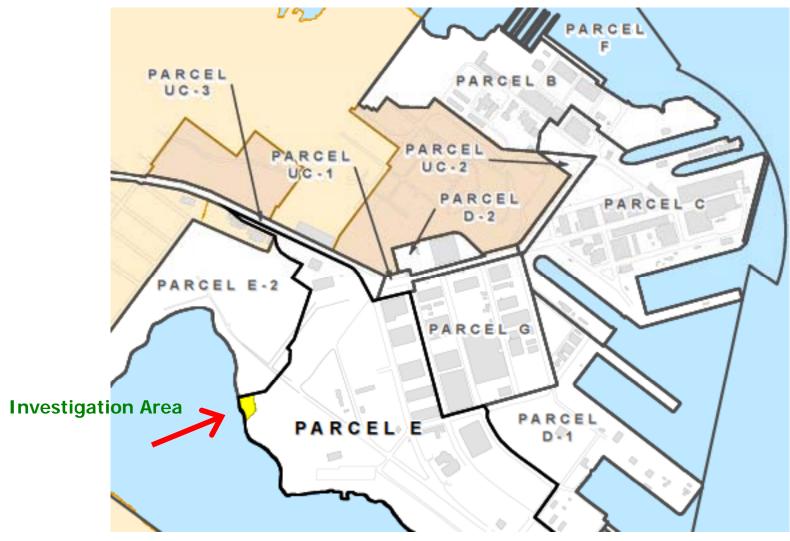


- Provide a summary of data collected during the first round of direct-push soil sampling
- Discuss and select locations for step-out borings for second (final) round



Location of Investigation

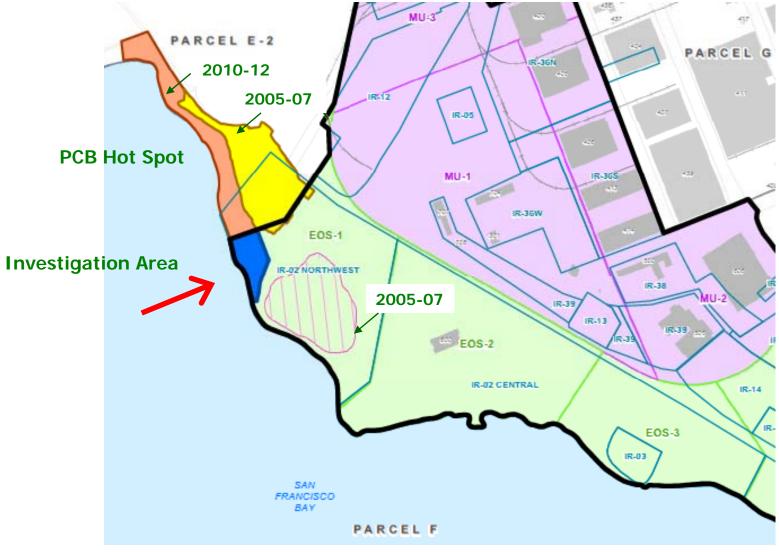






Nearby Removal Actions/TCRAs

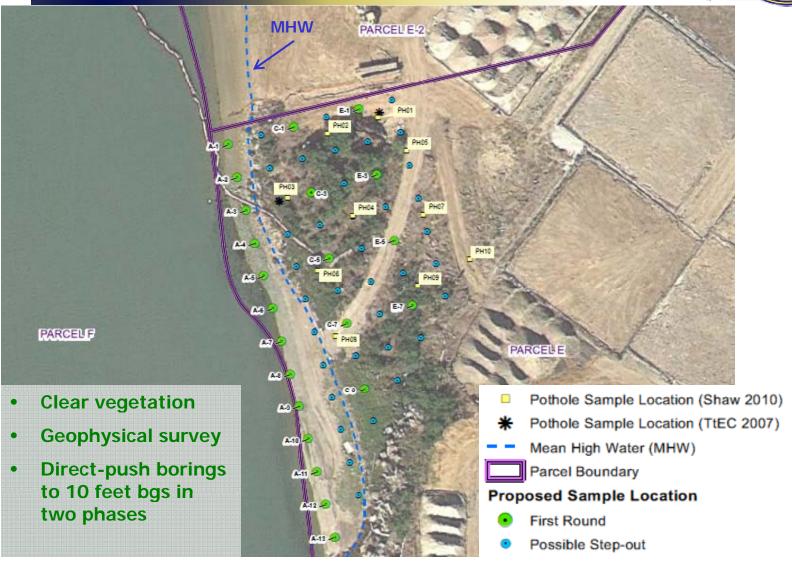






Field Sampling Plan Sample Locations







Chemicals of Concern

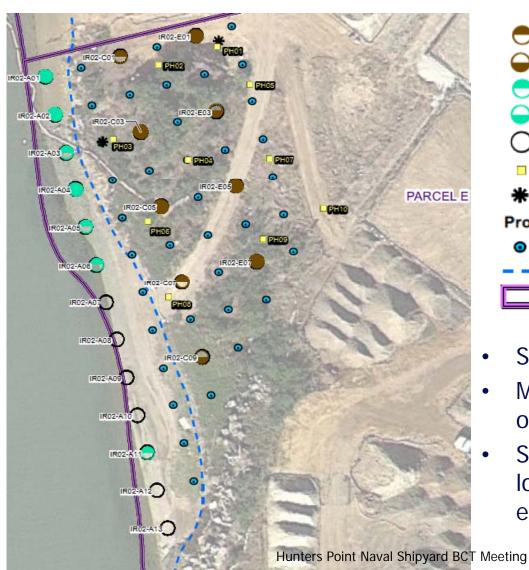


- COCs are based on ecological risk in sediment; human health risk in soil
- Sediment (bayward of Mean High Water [MHW] line)
 - PCBs (total aroclors)
 - Total TPH
 - Pesticides (total DDT)
 - Select metals
- Soil (landward of MHW line)
 - PCBs (aroclors 1254 and 1260)
 - Total TPH
 - Pesticides (dieldrin and heptachlor epoxide)
 - PAHs (7 carcinogenic PAHs)
 - Select metals



Results from Round 1





- 2' Soil Exceeds PAL
- 9' Soil Exceeds PAL
- 2' Sediment Exceeds PAL
- 9' Sediment Exceeds PAL
- No Exceedance
 - Pothole Sample Location (Shaw 2010)
- * Pothole Sample Location (TtEC 2007)

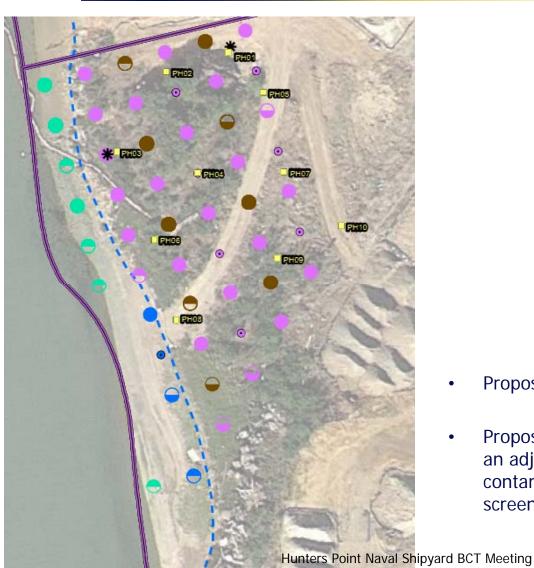
Proposed Sample Location

- Possible Step-out
- Mean High Water (MHW)
- Parcel Boundary
- Samples collected at 2 and 9 feet
- Most locations exceeded at least one PAL
- Southern shoreline had several locations with no PAL exceedances



Proposed Locations for Round 2





First Round Sampling Results

2' Soil Exceeds PAL

9' Soil Exceeds PAL

2' Sediment Exceeds PAL

9' Sediment Exceeds PAL

Pothole Sample Location (Shaw 2010)

★ Pothole Sample Location (TtEC 2007)

Proposed Step-out Locations

Sediment - sample 2' and 9'

Sediment - sample 2' only

Sediment - sample 9' only

Sediment - interior step-out

Soil - sample 2' and 9'

Soil - sample 2' only

Soil - sample 9' only

Soil - interior step-out

- Propose sampling at most step-out locations
- Propose sampling "interior" step-outs only if an adjacent step-out shows visible contamination or indicated by field screening (PID or FID)



Overview of Results and Plans



- At least one PAL was exceeded at 16 of the 22 locations sampled during round 1.
- Step-out sampling is recommended at 27 locations.
 - "Interior" step-outs not included in this 27 total (there are 8 interior locations).
 - Step-out samples to be collected from the same depth interval where a sample exceeded a PAL in the initial boring (that is, 2 feet, 9 feet, or both).
 - Step-out samples to be analyzed for all COCs (dependent on sediment or soil).
- PALs were not exceeded at 6 locations and further sampling is not required.



Schedule



- Second round of drilling and sampling in mid to late August
- Draft completion report to BCT about 2½ months after the completion of field work (about November)



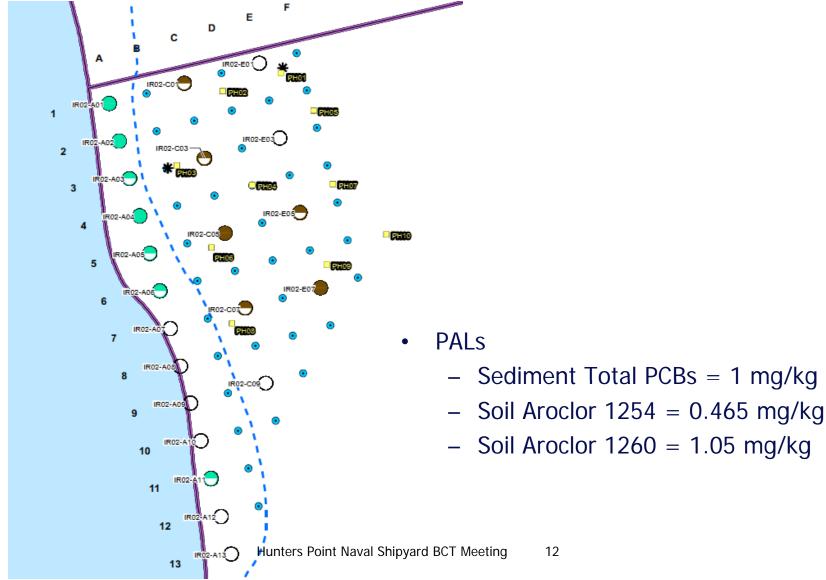


Comments, Questions, Concerns ???



Round 1 -- PCBs

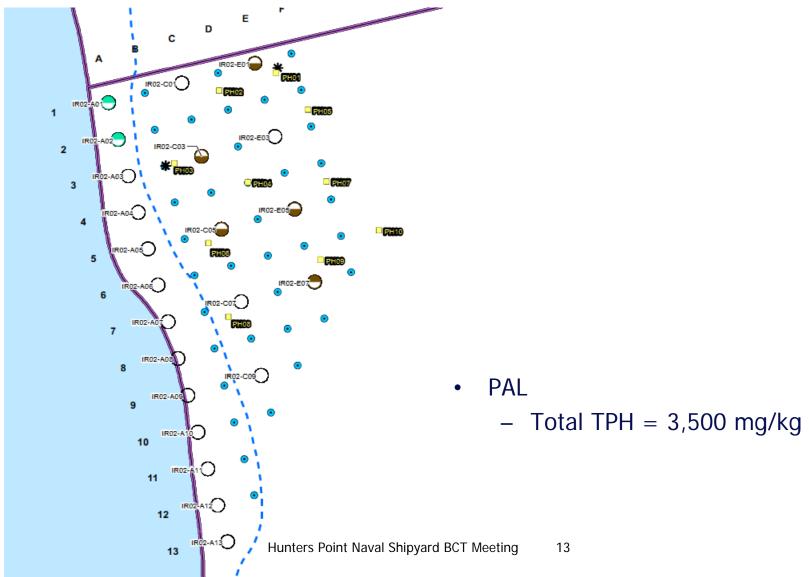






Round 1 – Total TPH

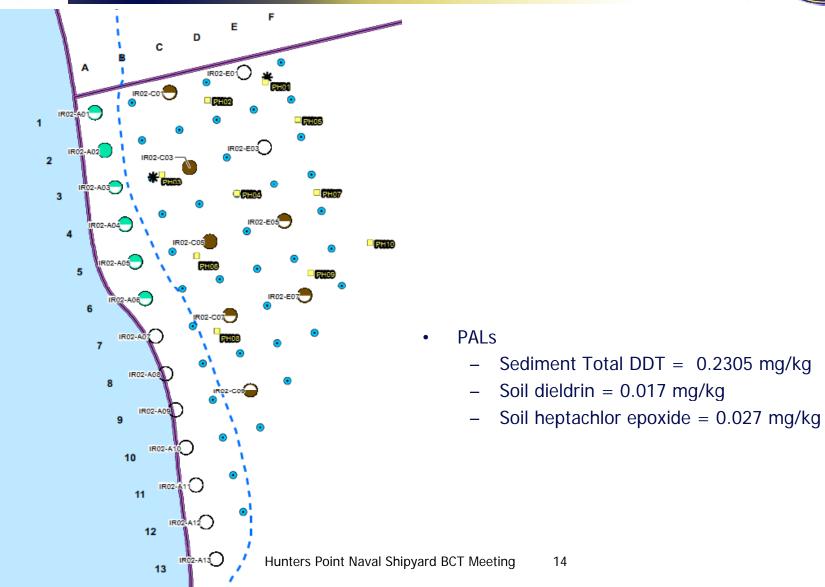






Round 1 -- Pesticides







Round 1 -- Metals



